

## SEQUENCE LISTING

- <110> KOCHENDOERFER, GERD G. SHAO, HAIYAN CRESSMAN, SONYA
- <120> MULTIPLEX POLYMER LIGATION
- <130> GRFN-047WO
- <140> Unassigned
- <141> filed herewith
- <150> 60/437,511
- <151> 2002-12-30
- <150> 60/515,609
- <151> 2003-10-29
- <160> 2
- <170> FastSEQ for Windows Version 4.0
- <210> 1
- <211> 174
- <212> PRT
- <213> Artificial Sequence
- <220>
- <223> synthetic granulocyte stimulating protein
- <221> VARIANT
- <222> (58)...(58)
- <223> Xaa = a non-native lysine chemically modified at the epsilon-amino group with an oxime linker group coupled to a designated water-soluble polymer through an oxime bond (or intermediates which contain AoA)
- <221> VARIANT
- <222> (121)...(121)
- <223> Xaa = Nle (norleucine)
- <221> VARIANT
- <222> (126)...(126)
- <223> Xaa = Nle (norleucine)
- <221> VARIANT
- <222> (131)...(131)
- <223> Xaa = psi (non-native amino acid residue
   consisting of a cysteine that is
   carboxamidemethylated at the sulfhydryl group)
- <221> VARIANT
- <222> (133)...(133)
- <223> Xaa = a non-native lysine chemically modified at the epsilon-amino group with an oxime linker group coupled to a designated water-soluble polymer through an oxime bond (or intermediates which contain AoA)

<222> (133)...(133)



## PCT/US2003/041459

```
<400> 1
Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu Lys
Cys Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln
Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu Val
Leu Leu Gly His Ser Leu Gly Ile Pro Xaa Ala Pro Leu Ser Ser Cys
Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His Ser
                                         75
Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser
                                     90
Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala Asp
                                105
Phe Ala Thr Thr Ile Trp Gln Gln Xaa Glu Glu Leu Gly Xaa Ala Pro
        115
                            120
                                                 125
Ala Leu Xaa Pro Xaa Gln Gly Ala Met Pro Ala Phe Ala Ser Ala Phe
                        135
                                             140
Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser Phe
                    150
                                         155
Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro
                165
<210> 2
<211> 174
<212> PRT
<213> Artificial Sequence
<223> synthetic granulocyte stimulating protein
<221> VARIANT
<222> (17)...(17)
<223> Xaa = Abu (Aminobutyric acid)
<221> VARIANT
<222> (58) ... (58)
<223> Xaa = a non-native lysine chemically modified at
      the epsilon-amino group with an oxime linker group
      coupled to a designated water-soluble polymer
      through an oxime bond (or intermediates which
      contain AoA)
<221> VARIANT
<222> (121)...(121)
<223> Xaa = Nle (norleucine)
<221> VARIANT
<222> (126)...(126)
<223> Xaa = Nle (norleucine)
<221> VARIANT
<222> (131)...(131)
<223> Xaa = psi (non-native amino acid residue
      consisting of a cysteine that is
      carboxamidemethylated at the sulfhydryl group)
<221> VARIANT
```

<223> Xaa = a non-native lysine chemically modified at





the epsilon-amino group with an oxime linker group coupled to a designated water-soluble polymer through an oxime bond (or intermediates which contain AoA)

<400> 2															
-		Leu		3					10					15	
		Glu	20					25					30	Leu	
		Leu 35					40					45			
	30	Gly				55					60				
0.5		Gln			70					75					0.0
		Phe		03					90					0.5	Ser
		Leu	TOO					105					110	Ala	
		Thr 115					120					125	Xaa		
	720	Xaa				135					140	Ala			
143		Arg			T20					155	His			Ser	Phe 160
Leu	Glu	Val	Ser	Tyr 165	Arg	Val	Leu	Arg	His 170	Leu	Ala	Gln	Pro		100